

$n$	$(p, q)$	$\gamma$	$\varepsilon_V$	deviation	$B$	$\ B\ _E^2$	S/V/E	covolume
1	(4, 2)	$-1.00000 + 1.41421i$	$5 \leftrightarrow 14$	$1.35 \times 10^{-14}$	$(0.38, 0.58, -0.04)$	0.48	16/13/28	Free?
		$-1.00000 - 1.41421i$	$5 \leftrightarrow 13$	$2.12 \times 10^{-14}$	$(0.38, 0.58, 0.02)$	0.49	16/13/28	Free?
	(2, 4)	$-1.00000 + 1.41421i$	$3 \leftrightarrow 13$	$3.77 \times 10^{-15}$	$(0.04, 0.22, 0.46)$	0.26	10/7/16	Free?
		$-1.00000 - 1.41421i$	$3 \leftrightarrow 13$	$1.13 \times 10^{-14}$	$(0.25, 0.42, 0.14)$	0.25	16/13/28	Free?
2	(4, 2)	$-1.00000 + 1.55377i$	$5 \leftrightarrow 13$	$5.06 \times 10^{-14}$	$(0.46, 0.62, -0.06)$	0.60	16/13/28	Free?
		$-1.00000 - 1.55377i$	$4 \leftrightarrow 13$	$3.31 \times 10^{-14}$	$(0.47, 0.62, 0.04)$	0.61	16/13/28	Free?
	(2, 4)	$-1.00000 + 1.55377i$	$3 \leftrightarrow 14$	$4.44 \times 10^{-15}$	$(0.12, 0.25, 0.51)$	0.33	10/7/16	Free?
		$-1.00000 - 1.55377i$	$3 \leftrightarrow 13$	$2.55 \times 10^{-14}$	$(0.34, 0.44, 0.16)$	0.34	16/13/28	Free?
3	(4, 2)	$1.00755 + 0.51312i$	$7 \leftrightarrow 11$	$9.08 \times 10^{-12}$	$(0.61, 0.52, 0.42)$	0.82	52/76/126	3.667339431536167
		$1.00755 - 0.51312i$	$8 \leftrightarrow 12$	$4.91 \times 10^{-10}$	$(0.61, 0.58, 0.31)$	0.80	48/66/112	3.681087139097583
		$-3.00755 + 0.51312i$	$6 \leftrightarrow 10$	$6.04 \times 10^{-09}$	$(-0.27, 0.24, 0.75)$	0.70	64/98/160	3.679014906160397
		$-3.00755 - 0.51312i$	$6 \leftrightarrow 11$	$2.25 \times 10^{-09}$	$(-0.29, 0.74, 0.33)$	0.74	64/98/160	3.672306327492297
	(2, 4)	$1.00755 + 0.51312i$	$6 \leftrightarrow 12$	$1.46 \times 10^{-10}$	$(0.20, 0.35, 0.41)$	0.33	52/76/126	3.675159456805927
		$1.00755 - 0.51312i$	$5 \leftrightarrow 12$	$6.87 \times 10^{-11}$	$(0.42, 0.43, 0.38)$	0.51	50/70/118	3.683332586060244
		$-3.00755 + 0.51312i$	$6 \leftrightarrow 11$	$2.74 \times 10^{-09}$	$(0.02, 0.02, 0.58)$	0.34	64/98/160	3.682522626324831
		$-3.00755 - 0.51312i$	$6 \leftrightarrow 12$	$5.21 \times 10^{-10}$	$(0.66, 0.56, 0.45)$	0.96	64/98/160	3.686890741856108
4	(4, 2)	$0.17660 + 1.20282i$	$6 \leftrightarrow 12$	$3.71 \times 10^{-10}$	$(0.57, 0.61, -0.21)$	0.75	38/54/90	3.316021637460442
			$12$	$2.14 \times 10^{-10}$				3.316021637488303
		$0.17660 - 1.20282i$	$5 \leftrightarrow 12$	$7.19 \times 10^{-11}$	$(0.70, 0.44, 0.48)$	0.92	36/50/84	3.309439624044029
		$-2.17660 + 1.20282i$	$5 \leftrightarrow 9$	$9.24 \times 10^{-11}$	$(-0.39, 0.39, 0.60)$	0.66	50/76/124	3.315537713648098
	(2, 4)	$-2.17660 - 1.20282i$	$5 \leftrightarrow 9$	$1.63 \times 10^{-10}$	$(-0.40, 0.57, 0.44)$	0.68	50/76/124	3.316268299807699
		$0.17660 + 1.20282i$	$5 \leftrightarrow 12$	$2.45 \times 10^{-11}$	$(0.59, 0.21, 0.62)$	0.77	36/50/84	3.308662886740566
		$0.17660 - 1.20282i$	$4 \leftrightarrow 13$	$5.26 \times 10^{-11}$	$(0.59, 0.41, 0.38)$	0.65	36/50/84	3.314732294986595
		$-2.17660 + 1.20282i$	$6 \leftrightarrow 11$	$2.99 \times 10^{-10}$	$(-0.24, 0.12, 0.58)$	0.41	50/76/124	3.319760346031557
5	(4, 2)	$0.81516 \pm 0.71242i$	$3 \leftrightarrow 15$					failure.
		$-2.81516 \pm 0.71242i$	$3 \leftrightarrow 15$					failure.
	(2, 4)	$0.81516 \pm 0.71242i$	$3 \leftrightarrow 15$					failure.
		$-2.81516 \pm 0.71242i$	$3 \leftrightarrow 15$					failure.
6	(4, 2)	$0.58153 \pm 0.93916i$	$3 \leftrightarrow 15$					failure.
		$-2.58153 \pm 0.93916i$	$3 \leftrightarrow 15$					failure.
	(2, 4)	$0.58153 \pm 0.93916i$	$3 \leftrightarrow 15$					failure.
		$-2.58153 \pm 0.93916i$	$3 \leftrightarrow 15$					failure.
7	(4, 2)	$-0.30368 \pm 1.43595i$	$3 \leftrightarrow 15$					failure.
		$-1.69632 \pm 1.43595i$	$3 \leftrightarrow 15$					failure.
	(2, 4)	$-0.30368 \pm 1.43595i$	$3 \leftrightarrow 15$					failure.
		$-1.69632 \pm 1.43595i$	$3 \leftrightarrow 15$					failure.
8	(4, 2)	$-0.82835 \pm 1.57669i$	$3 \leftrightarrow 15$					failure.
		$-1.17165 \pm 1.57669i$	$3 \leftrightarrow 15$					failure.
	(2, 4)	$-0.82835 \pm 1.57669i$	$3 \leftrightarrow 15$					failure.
		$-1.17165 \pm 1.57669i$	$3 \leftrightarrow 15$					failure.
9	(4, 2)	$-1.00000 + 1.65289i$	$5 \leftrightarrow 12$	$1.42 \times 10^{-13}$	$(0.85, 0.60, -0.01)$	1.08	16/13/28	Free?
		$-1.00000 - 1.65289i$	$4 \leftrightarrow 14$	$1.91 \times 10^{-14}$	$(0.84, 0.59, 0.09)$	1.07	18/19/36	Free?
	(2, 4)	$-1.00000 + 1.65289i$	$3 \leftrightarrow 12$	$4.11 \times 10^{-15}$	$(0.18, 0.27, 0.54)$	0.40	10/7/16	Free?
		$-1.00000 - 1.65289i$	$4 \leftrightarrow 13$	$8.90 \times 10^{-14}$	$(0.77, 0.42, 0.58)$	1.10	18/19/36	Free?
10	(4, 2)	$-1.00000 + 1.73205i$	$5 \leftrightarrow 13$	$4.24 \times 10^{-14}$	$(0.32, 0.98, -0.01)$	1.06	16/12/28	Free?
		$-1.00000 - 1.73205i$	$4 \leftrightarrow 13$	$2.43 \times 10^{-14}$	$(0.65, 0.66, 0.04)$	0.85	16/12/28	Free?
	(2, 4)	$-1.00000 + 1.73205i$	$3 \leftrightarrow 14$	$5.86 \times 10^{-14}$	$(0.13, 0.32, 0.95)$	1.01	18/18/36	Free?
		$-1.00000 - 1.73205i$	$4 \leftrightarrow 13$	$5.72 \times 10^{-14}$	$(0.79, 0.35, 0.55)$	1.05	18/18/36	Free?
11	(4, 2)	$-0.78492 + 1.30714i$	$4 \leftrightarrow 13$	$2.35 \times 10^{-14}$	$(0.47, 0.58, -0.08)$	0.56	24/28/50	0.824868942429759
		$-0.78492 - 1.30714i$	$4 \leftrightarrow 13$	$2.43 \times 10^{-14}$	$(0.46, 0.58, 0.11)$	0.56	24/28/50	0.824311173803825
		$-1.21508 + 1.30714i$	$4 \leftrightarrow 12$	$2.82 \times 10^{-14}$	$(0.31, 0.55, -0.01)$	0.40	24/30/52	0.824697952334939
		$-1.21508 - 1.30714i$	$5 \leftrightarrow 11$	$7.80 \times 10^{-14}$	$(0.31, 0.55, -0.01)$	0.40	24/30/52	0.824751919464297
	(2, 4)	$-0.78492 + 1.30714i$	$4 \leftrightarrow 13$	$9.61 \times 10^{-14}$	$(0.04, 0.24, 0.39)$	0.21	24/28/50	0.823655908723790
			4, 5	$2.89 \times 10^{-14}$				0.823655908723696
		$-0.78492 - 1.30714i$	$3 \leftrightarrow 13$	$8.04 \times 10^{-14}$	$(0.29, 0.45, 0.21)$	0.33	24/28/50	0.824214675045511
		$-1.21508 + 1.30714i$	$4 \leftrightarrow 14$	$1.12 \times 10^{-13}$	$(0.25, 0.40, 0.08)$	0.22	24/30/52	0.824574862965058
		$-1.21508 - 1.30714i$	$4 \leftrightarrow 14$	$9.30 \times 10^{-14}$	$(0.19, 0.40, 0.10)$	0.20	24/30/52	0.824533637845718

Table 1: Table Q5.11